Experiment S1

Replication of Experiment 1

To replicate the effects found in Experiment 1, we conducted a further Experiment 1.1, using the same method as in Experiment 1 with the only change being that we reduced the short disappearance duration from 150 ms to 0 ms. Forty students from Berlin universities participated. Fourteen were male, with a mean age of 23.25 years (SD = 2.77). Participants received on average $\[\in \]$ 7 for their participation.

Results

Overall, we replicated the results from Experiment 1. Participants reached a similar level of accuracy: On average, 60% of the objects were hit. Again, fast objects were hit less often than slow objects (ANOVA, $F_{1,39} = 46.17$, P < 0.001) and objects that disappeared for 450 ms were hit less often than objects that did not disappear (ANOVA, $F_{1,39} = 129.51$, P < 0.001). Further, the effect of speed was larger when objects did not disappear (ANOVA, $F_{1,39} = 5.03$, P = 0.03; for means and SDs see Table S1). We also found a main effect for pattern (ANOVA, $F_{2,78} = 3.83$, P = 0.03). Longitudinally striped objects were hit more often than vertically striped ones (Contrast, $F_{1,39} = 9.10$, P = 0.004; for means and SDs see Table A1), but not reliably more often than unicolored ones (Contrast, $F_{1,39} = 1.05$, P = 0.31). We did not find an interaction between pattern and disappearance duration (ANOVA, $F_{2,78} = 2.07$, P = 0.13).

Table S1

Means and Standard Deviations of Hit Rate by Speed, Disappearance Duration, and Pattern

	Disappearance duration						
	0 ms				450 ms		
	Pattern			-	Pattern		
Speed	Long	Uni	Vert	-	Long	Uni	Vert
12 cm/s	0.76 (0.15)	0.74 (0.18)	0. 70 (0.15)		0.58 (0.18)	0.54 (0.15)	0.56 (0.18)
16 cm/s	0.61 (0.18)	0.63 (0.15)	0.59 (0.16)		0.49 (0.14)	0.48 (0.16)	0.48 (0.15)

Note. Long: longitudinally striped; uni: unicolored; vert: vertically striped.